



Michigan Department of Environmental Quality  
Waste and Hazardous Materials Division

## SOLID WASTE DISPOSAL AREA OPERATING LICENSE

This license is issued under the provisions of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, MCL 324.11501 et seq., and authorizes the operation of this solid waste disposal area (Facility) in the state of Michigan. This license does not obviate the need to obtain other authorizations as may be required by state law.

FACILITY NAME: Richfield Landfill, Inc.

LICENSEE/OPERATOR: Richfield Landfill, Inc.

FACILITY OWNER: Richfield Landfill, Inc.

PROPERTY OWNER: Richfield Landfill, Inc.

FACILITY TYPE(S): Municipal Solid Waste Landfill

FACILITY ID NUMBER: 470534

COUNTY: Genesee

LICENSE NUMBER: 9102

ISSUE DATE: July 1, 2005

EXPIRATION DATE: July 1, 2010

FACILITY DESCRIPTION: The Richfield Landfill, Inc., a Municipal Solid Waste Landfill, consists of 351.14 acres located in the NE 1/4 of the NW 1/4 of Section 2, T8N, R8E, Richfield Township, Genesee County, Michigan, as identified in Attachment A and fully described in this license.

AREA AUTHORIZED FOR DISPOSAL OF SOLID WASTE: Identified in Item 2 of this license and Attachment A.

RESPONSIBLE PARTY: Mr. Bernhard Rumbold  
Richfield Landfill, Inc.  
322 Old North Woodward  
Birmingham, Michigan 48009  
248-647-0930

**RENEWAL OPERATING LICENSE:** This License Number 9102 supersedes and replaces Solid Waste Disposal Area License Number 9007 issued to Richfield Landfill, Inc. on April 1, 2004.

This license is subject to revocation by the Director of the Michigan Department of Environmental Quality if the Director finds that this Facility is not being constructed or operated in accordance with the approved plans, the conditions of a permit or license, Part 115, or the rules promulgated under Part 115. Failure to comply with the terms and provisions of this license may result in legal action leading to civil and/or criminal penalties pursuant to Part 115. This license shall be available through the licensee during its term and remains the property of the Director.

**THIS LICENSE IS NOT TRANSFERABLE.**

Steven R. Sliver, Chief, Storage Tank and Solid Waste Section  
Waste and Hazardous Materials Division

Licensee: Richfield Landfill, Inc.  
Facility Name: Richfield Landfill, Inc.  
Operating License Number: 9102  
Issue Date: July 1, 2005

The licensee shall comply with all terms of this license and the provisions of Part 115 and its administrative rules. This license includes the license application and any attachments to this license.

1. The licensee shall operate the Facility in a manner that will prevent violations of any state or federal law.
2. The following portions of the Facility are authorized to receive solid waste by this license:

**ACTIVE PORTIONS NOT AT FINAL GRADE:** The area(s) identified as Cell 1 (15.89 acres) and Cell 2 (12.09 acres) were authorized to receive waste by the previous license. This area's total acreage is 27.98 acres.

3. The following portions of the Facility **WILL BE** authorized to receive solid waste by this license following approval by the Michigan Department of Environmental Quality (DEQ) of construction certification: None.

4. The following portions of the Facility are **NOT** authorized to receive solid waste by this license:

a. **UNCLOSED AREA(S):** The area(s) identified as unclosed portion of the old fill area are at final grade but have not had final cover certification approved by the DEQ. This area's total acreage is 4.36 acres.

b. **CLOSED UNIT(S) OR A PORTION OF A UNIT WHERE THE FINAL COVER HAS BEEN CERTIFIED CLOSED AND ACCEPTED BY THE DEQ:** The following unit(s) and/or portion(s) are closed:

**PRE-EXISTING UNIT(S):** The unit(s) identified as the old fill area consisting of two separate closure certifications respectively and had final closure certified on December 1989, and September 1990. This certification was reviewed and approved by the DEQ on January 22, 1990, and October 10, 1990. This area's total acreage is 40.96 acres.

5. The attached map (Attachment A) shows the Facility, the area permitted for construction, monitoring points, leachate storage units, site roads, other disposal areas, and related appurtenances.
6. Issuance of this license is conditioned on the accuracy of the information submitted by the Applicant in the Application for License to Operate a Solid Waste Disposal Area (Application) received by the DEQ on April 4, 2005, and any subsequent amendments. Any material or intentional inaccuracies found in that information is grounds for the revocation or modification of this license, and may be grounds for enforcement action. The licensee shall inform the DEQ's Waste and Hazardous Materials Division, Lansing District Supervisor, of any inaccuracies in the information in the Application upon discovery.
7. This license is issued based on the DEQ's review of the Application, submitted by Richfield Landfill, Inc., for the Richfield Landfill, Inc., dated March 30, 2005 and revised June 3, 2005, and June 21, 2005. The Application consists of the following:
  - a. Application Form EQP 5507.
  - b. Application fee in the amount of \$2,500.00.
  - c. Certification of construction by N/A, dated N/A.
  - d. Waste Characterization: N/A.
  - e. Restrictive Covenant:

The Richfield Landfill, Inc. restrictive covenant on 272.2 acres is on file at the Genesee County Register of Deeds recorded on July 9, 2003, as Liber Instrument Number: 200307090093217 pages 1-4. A copy is on file with the DEQ.

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f. Perpetual Care Fund Agreement, established as an escrow account, signed by Mr. B. C. Rumbold, President, Richfield Landfill, Inc. on January 28, 2002, was executed by the DEQ on February 28, 2002.

g. Financial Assurance.

i. Financial Assurance Required:

The amount of financial assurance required for this Facility was calculated based on the calculation worksheet form EQP 5507A entitled, "Form A Financial Assurance Required," and is \$2,460,139.46.

The Facility has provided financial assurance totaling \$2,460,139.00, based on the requirements of Section 11523 of Part 115, consisting of a combination of the Perpetual Care Fund established under Section 11525, bonds, and the financial capability of the Applicant as evidenced by a financial test. The financial assurance mechanisms used by the Facility are summarized below in items ii, iii, and iv, respectively.

ii. Financial Assurance Provided Via a Perpetual Care Fund:

- (1) The amount of the required financial assurance can be reduced pursuant to Section 11524 of Part 115, if the amount of money in the Perpetual Care Fund plus the amount of the reduced financial assurance equals the amount of financial assurance required in Section 11523 and is approved by the DEQ.
- (2) The Perpetual Care Fund Agreement statement showed a balance of \$314,143.32 in the Facility's Perpetual Care Fund as of March 31, 2005. Of this amount, the DEQ has granted the request to use \$314,143.32 toward the total amount of financial assurance required.

iii. Financial Assurance provided via bond:

The following financial assurance has been received from the Applicant to meet the amount of financial assurance required:

Irrevocable Letter of Credit	\$2,145,996.00
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Total Amount Received:	\$2,145,996.00
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iv. Financial Assurance Updates Required:

For Type II landfills, the financial assurance cost estimates of closure and post-closure activities must be updated annually and the corresponding requisite amount of financial assurance must be adjusted annually for the costs of inflation. The corresponding financial assurance, as adjusted for inflation and other factors, is due on July 1, 2006, and each year thereafter.

8. The following documents approved with Construction Permit Number(s) 0160 issued to Richfield Landfill, Inc. on October 9, 1985, are incorporated in this license by reference:

- a. Environmental Assessment titled "An Environmental Assessment for the Richfield Landfill, Inc.," prepared by Environmental Engineers, Inc., and dated November 1984, and revised August 1985.
- b. Hydrogeological Report titled "Preliminary Hydrogeological Report for Richfield Landfill, Inc.," prepared by Earth Sciences Services, dated August 12, 1985.
- c. Engineering Construction Plans titled "Construction Plans for a Portion of the Richfield Landfill" prepared by Environmental Engineers, Inc., and dated July 15, 1985.

9. The following additional documents, approved since the issuance of the construction permit(s) referenced in Item 8, are incorporated in this license by reference:

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- a. "Interim Hydrogeologic Monitoring Program," prepared by Insight Environmental Services, Inc., dated August 6, 2001, and revised August 27, 2001.
  - b. "Repair Plan," prepared by NTH Consultants, LTD, dated October 25, 2001, and approved February 5, 2002.
  - c. Explosive Gas Control Plan titled "Gas Monitoring Plan," prepared by Insight Environmental Services, Inc., dated September 12, 2001, and approved September 25, 2001.
  - d. Landfill Access Plan titled "Richfield Access Plan," prepared by NTH Consultants, LTD, dated November 30, 2001, and approved February 5, 2002.
  - e. Leachate Management Plan titled "Richfield Leachate Management Plan," prepared by NTH Consultants, LTD, dated October 2, 2001, and approved February 5, 2002.
  - f. Construction Quality Assurance/Quality Control Plan prepared by NTH Consultants, LTD, dated September 2001, and approved October 2, 2001.
  - g. Engineering Plans for Cell 2 construction titled "Construction Permit Modifications of Cell 2 Richfield Landfill," prepared by NTH Consultants, LTD, dated August 2001, and approved October 9, 2001.
  - h. Closure Plan prepared by NTH Consultants, LTD, dated September 20, 2001, revised February 20, 2002, and approved February 25, 2002.
  - i. Post-Closure Plan prepared by NTH Consultants, LTD, dated September 20, 2001, revised February 20, 2002, and approved February 25, 2002.
  - j. Leachate Impact Remedial Plan prepared by Insight Environmental Services, Inc., dated January 11, 2002, revised February 21, 2002, and approved February 25, 2002.
  - k. Run-On/Run-Off Control Plan prepared by NTH Consultants, LTD, dated November 27, 2001, revised February 20, 2002, and approved February 25, 2002.
  - l. Engineering Design Report prepared by NTH Consultants, LTD, dated September 20, 2001, revised February 20, 2002, and approved February 25, 2002.
  - m. Revised Operating Plan for Placement and Documentation of Daily Cover Program prepared by Richfield Landfill, Inc., dated and approved September 19, 2003.
  - n. Amended Leachate Management Plan Proposed Reporting Program prepared by Richfield Landfill, Inc., dated, and approved September 19, 2003.
  - o. Amended Consent Order Proposed Dust and Paper Control Program prepared by Richfield Landfill, Inc., dated, and approved September 19, 2003.
  - p. Assessment Monitoring Program prepared by Insights Environmental Services, Inc., dated August 4, 2004, and approved on December 2, 2004.
  - q. Revised Gas Monitoring Plan prepared by Insights Environmental Services, Inc., dated October 28, 2004, and approved on December 1, 2004.
  - r. Leachate Outbreak Corrective Action Plan prepared by Richfield Landfill, Inc., dated January 26, 2005, and approved February 2, 2005.
10. Consent Order/Judgment Number: Consent Order Number 115-05-31-09-01 entered on August 29, 2001, and the Amendment of Consent Order Number 115-05-31-09-01-03A entered on September 10, 2003, is incorporated into this license by reference.

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11. The licensee shall repair any portion of the certified liner or leachate collection system that is found to be deficient or damaged during the term of this license unless determined otherwise by the DEQ.
12. The licensee shall have repairs to any portion of the certified liner or leachate collection system recertified by a registered professional engineer in accordance with R 299.4921 of Part 115 and approved by the DEQ before receiving waste in that portion of the certified liner or leachate collection system. The licensee shall submit the recertification to the DEQ's Waste and Hazardous Materials Division, Lansing District Supervisor, for review and approval.
13. The licensee shall conduct hydrogeological monitoring in accordance with the approved hydrogeological monitoring plan, dated August 6, 2001, and revised August 27, 2001. The sampling analytical results shall be submitted to the DEQ's Waste and Hazardous Materials Division, Lansing District Office.
14. Modifications to the approved hydrogeological monitoring plan referenced in Item 13 may be approved, in writing by the Waste and Hazardous Materials Division, Lansing District Supervisor. Proposed revisions must be submitted in a format specified by the DEQ.
15. Leachate may be recirculated if a leachate recirculation plan has been approved, in writing, by the Waste and Hazardous Materials Division, Lansing District Supervisor.
16. Modifications to approved engineering plans that constitute an upgrading, as defined in R 299.4106a(l), may be approved, in writing, by the Waste and Hazardous Materials Division, Lansing District Supervisor.
17. Requests for alternate daily cover may be approved, in writing, by the Waste and Hazardous Materials Division, Lansing District Supervisor.

18. Leakage Control Criteria:

The active portions of the unit(s) authorized to receive waste by this license is a monitorable unit(s) which is located over a natural soil barrier and which is in compliance with the provisions of R 299.4422(2).

19. **VARIANCES:** None.

20. **SPECIAL CONDITIONS:**

- a. The licensee shall place a compacted layer of not less than six inches of earthen material, unless an exemption is granted, of suitable cover material on all exposed solid waste by the end of each working day, as required by R 299.4429(l). Suitable cover shall be either uncontaminated soil or an alternate cover approved by the Waste and Hazardous Materials Division, listed in Item i below. Alternate cover shall be restricted as indicated in Item ii and applied as per the approved operational plan submitted by the licensee.

- i. Approved alternate cover shall be any of the following:

<u>Product/Waste Material</u>	<u>Source</u>	<u>Monthly Volume</u>
Spent Foundry Sand – General Motors Foundry Sand from Saginaw Casting Facility, approved for use on July 15, 2002		

- ii. The above materials are approved for daily cover when used in the following manner:

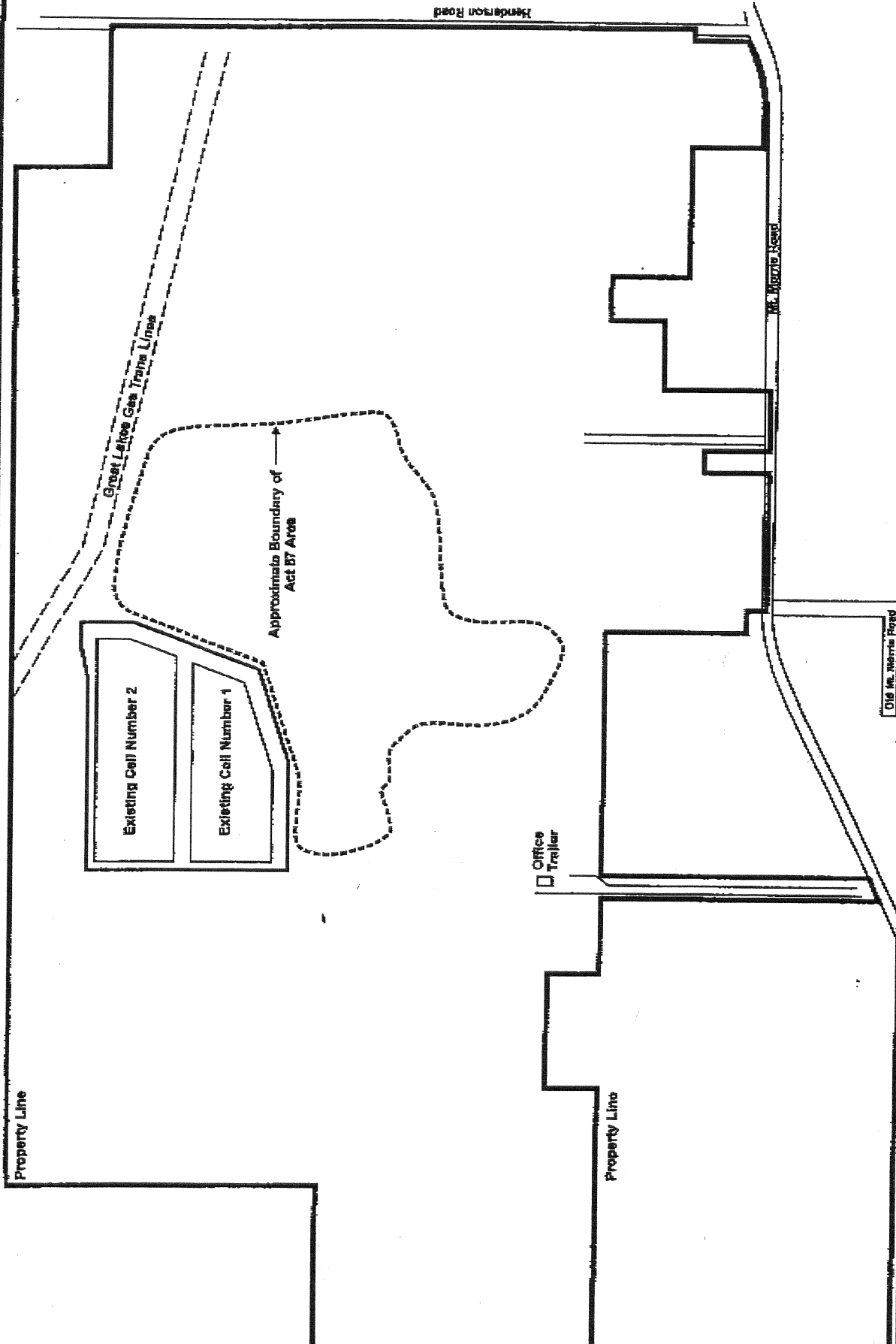
- (1) The licensee shall use the material as daily cover only. The material cannot be used for road building or fill in other areas of the Facility's operation.
- (2) The licensee shall maintain written authorization on site, from the generator of the material, to use the material as daily cover.
- (3) The licensee shall only stockpile material in a secure manner within the active cell.

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- (4) This approval does not preclude the licensee from disposing of the material as waste in the active fill area instead of using the material as daily cover.
  - (5) This approval shall immediately become void upon documentation by the DEQ that the alternate cover is not being used in accordance with listed conditions, that the alternate cover is not providing the necessary protection, or that the process producing the waste has changed.
  - (6) If the material does not meet the guidelines from Attachment 2 of Operational Memo 115-10 Revision 1 for non-volatiles, the licensee shall ensure that fugitive dust emissions from this material do not occur. Acceptable methods to assure fugitive emissions do not occur are:
    - (a) Implement a schedule to wet down material; or
    - (b) Cover the material with a tarp; or
    - (c) Apply an approved foam or other appropriate commercial dust control product.
  - (7) This approval to use alternate cover shall expire upon the expiration of this operating license.
- b. Issuance of this license does not constitute an approval of the Hydrogeologic Monitoring Plan dated August 2, 2004, and revised March 25, 2005, or the hydrogeologic investigation dated March 31, 2005
21. **TERM:** This license shall remain in effect until its expiration date, unless revoked or continued in effect, as provided by, the Administrative Procedures Act, 1969 PA 306, as amended, or unless superseded by the issuance of a subsequent license.

**END OF LICENSE**

ATTACHMENT A



Notes:

1. Source: Groundwater Monitoring Well Location Map prepared by NTH Consultants, Ltd. and Kelt Engineering.
2. Subject property boundary is approximate.

Scale:

1-Inch = 500-Feet

0 100 200



Site Schematic Diagram

Richfield Landfill  
Richfield Township  
Genesee County, Michigan

Insight